FIG. 1

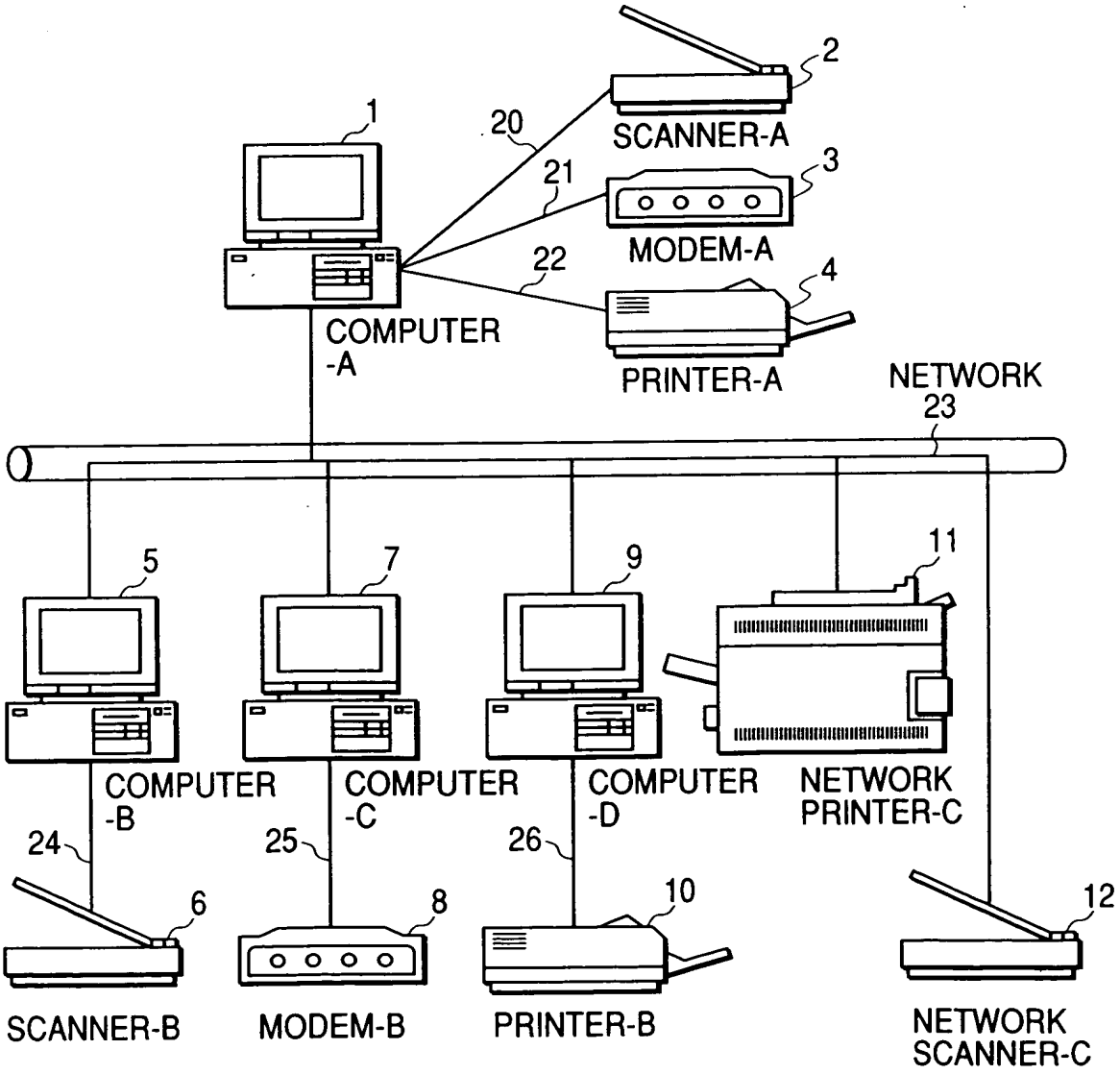
1
2
SCANNER-A
20
21
3
MODEM-A
22
4
COMPUTER
-A
PRINTER-A
NETWORK
23
5
7
9
11
COMPUTER
-B
COMPUTER
-C
COMPUTER
-D
NETWORK
PRINTER-C
24
25
26
6
8
10
12
SCANNER-B
MODEM-B
PRINTER-B
NETWORK
SCANNER-C

FIG. 2

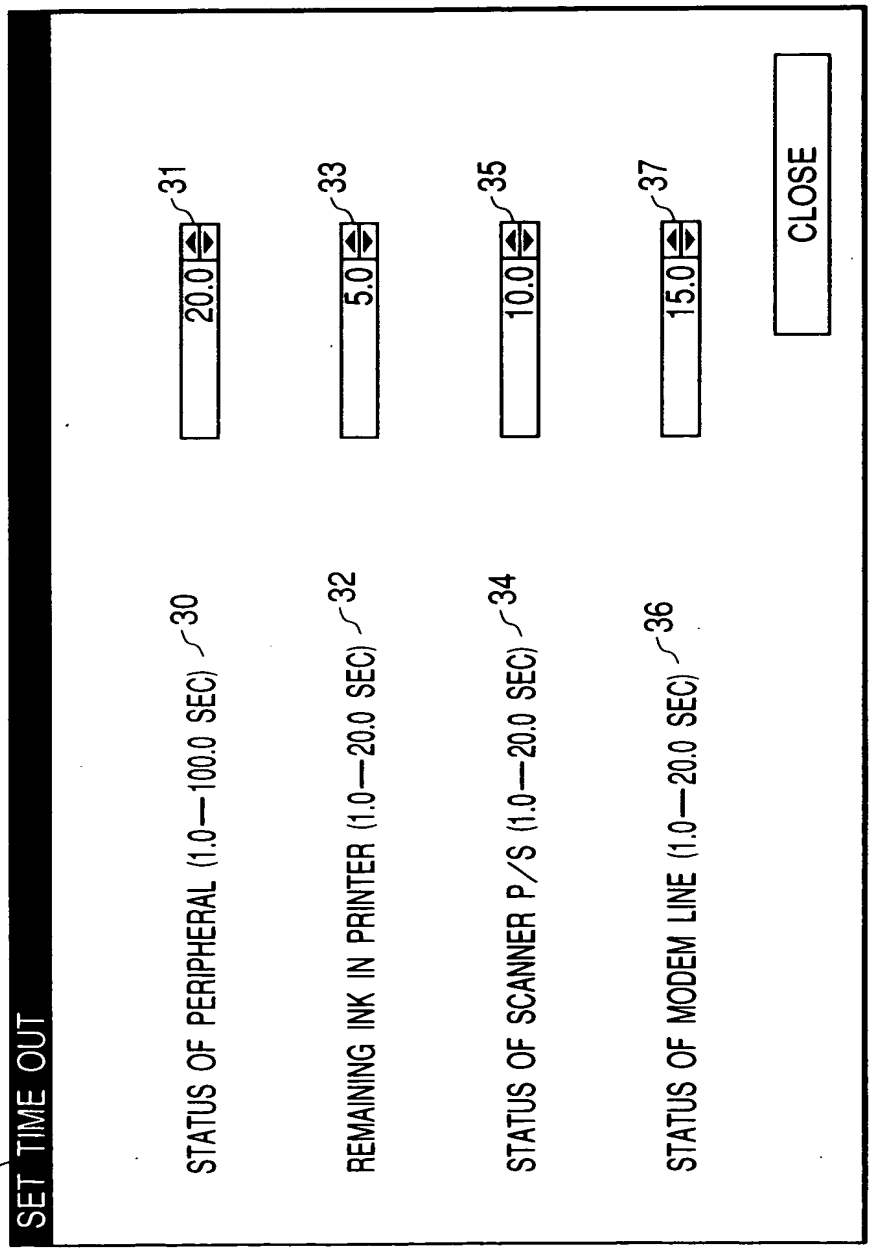
200
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
30
20.0
31
REMAINING INK IN PRINTER (1.0—20.0 SEC)
32
5.0
33
STATUS OF SCANNER P/S (1.0—20.0 SEC)
34
10.0
35
STATUS OF MODEM LINE (1.0—20.0 SEC)
36
15.0
37
CLOSE

FIG. 3

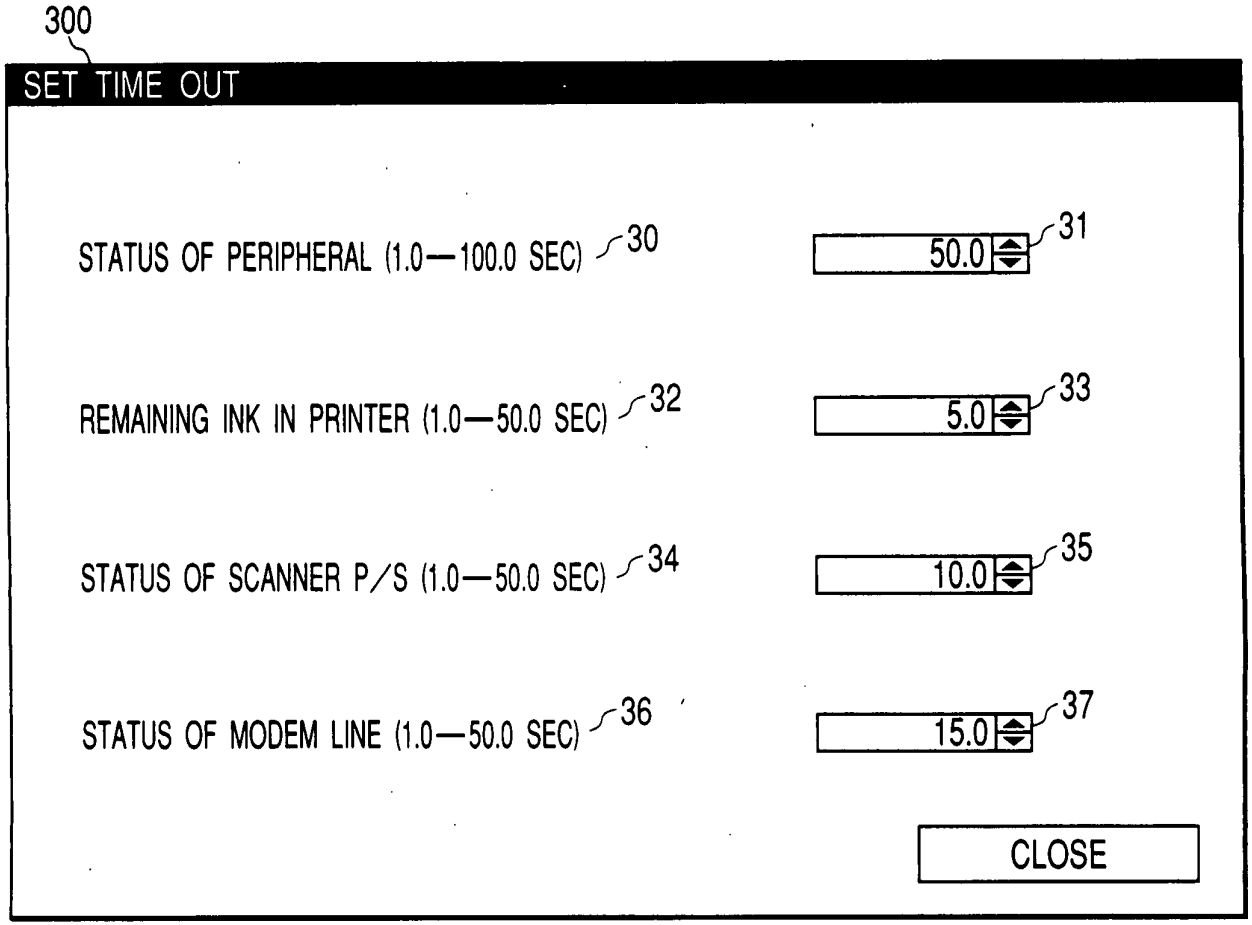
300
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
30
50.0
31
REMAINING INK IN PRINTER (1.0—50.0 SEC)
32
5.0
33
STATUS OF SCANNER P/S (1.0—50.0 SEC)
34
10.0
35
STATUS OF MODEM LINE (1.0—50.0 SEC)
36
15.0
37
CLOSE

FIG. 4

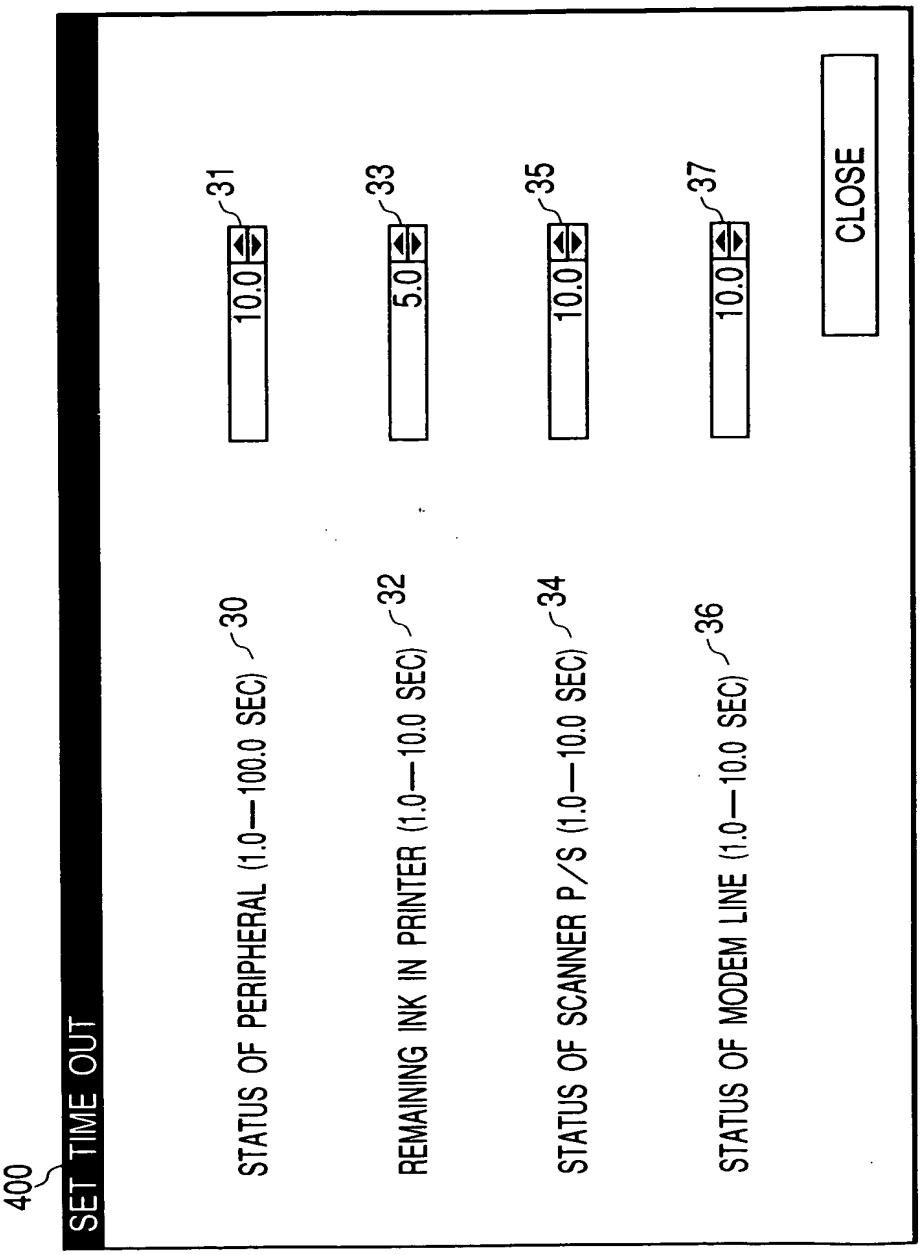
400
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
30
31
10.0
REMAINING INK IN PRINTER (1.0—10.0 SEC)
32
33
5.0
STATUS OF SCANNER P/S (1.0—10.0 SEC)
34
35
10.0
STATUS OF MODEM LINE (1.0—10.0 SEC)
36
37
10.0
CLOSE

FIG. 5

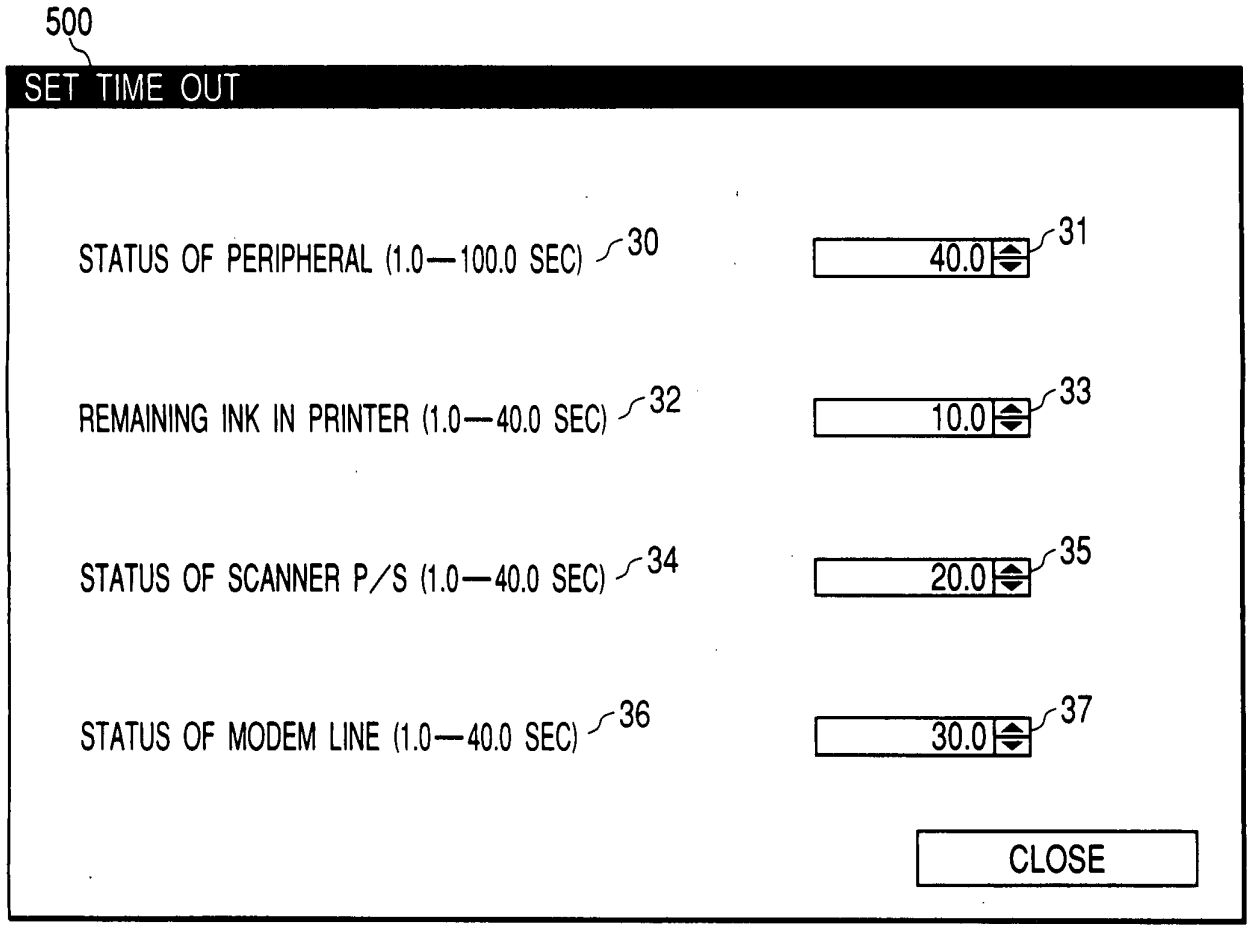
500
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
30
40.0
31
REMAINING INK IN PRINTER (1.0—40.0 SEC)
32
10.0
33
STATUS OF SCANNER P/S (1.0—40.0 SEC)
34
20.0
35
STATUS OF MODEM LINE (1.0—40.0 SEC)
36
30.0
37
CLOSE

FIG. 6

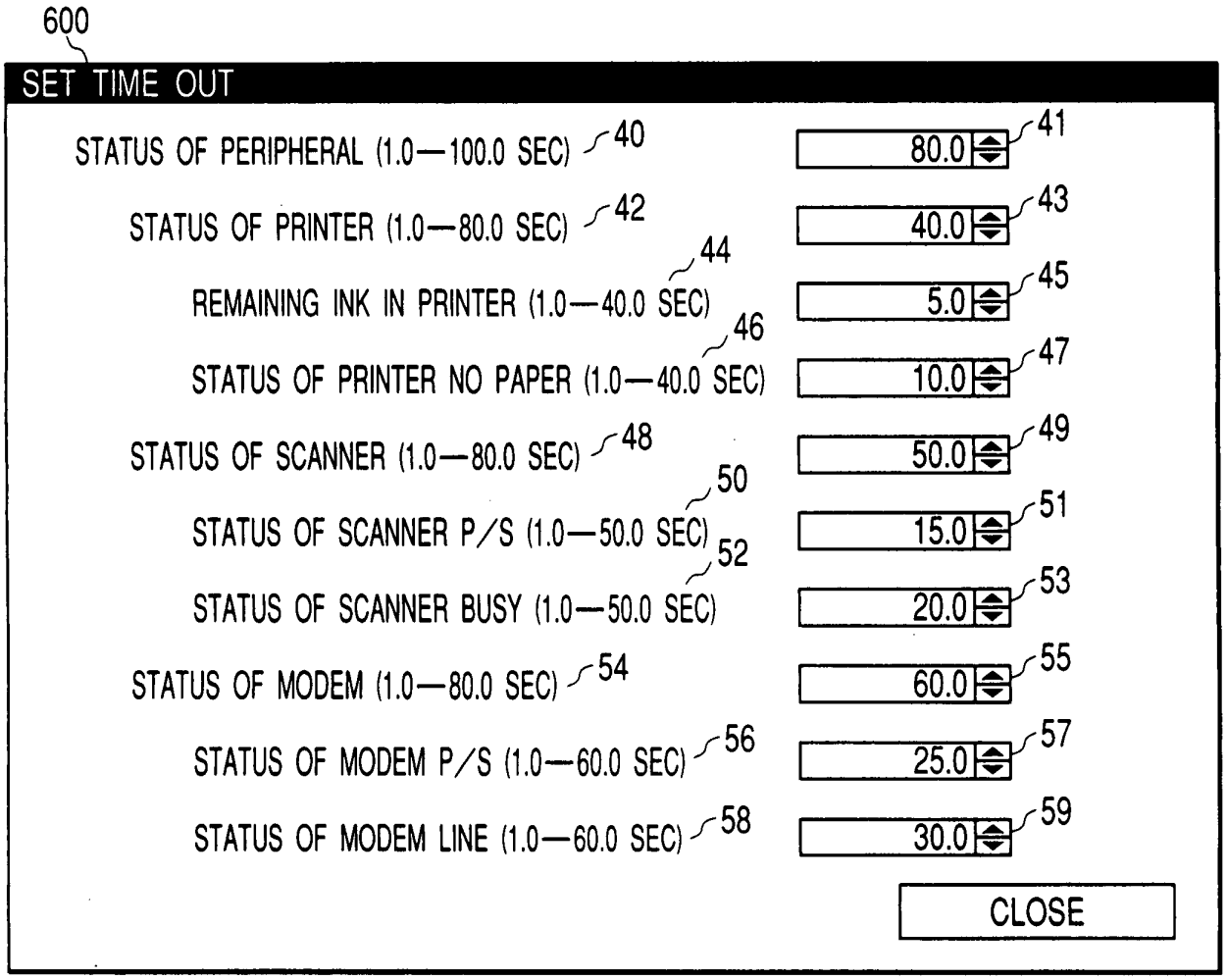
600
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
40
80.0
41
STATUS OF PRINTER (1.0—80.0 SEC)
42
40.0
43
REMAINING INK IN PRINTER (1.0—40.0 SEC)
44
5.0
45
STATUS OF PRINTER NO PAPER (1.0—40.0 SEC)
46
10.0
47
STATUS OF SCANNER (1.0—80.0 SEC)
48
50.0
49
STATUS OF SCANNER P/S (1.0—50.0 SEC)
50
15.0
51
STATUS OF SCANNER BUSY (1.0—50.0 SEC)
52
20.0
53
STATUS OF MODEM (1.0—80.0 SEC)
54
60.0
55
STATUS OF MODEM P/S (1.0—60.0 SEC)
56
25.0
57
STATUS OF MODEM LINE (1.0—60.0 SEC)
58
30.0
59
CLOSE

FIG. 7

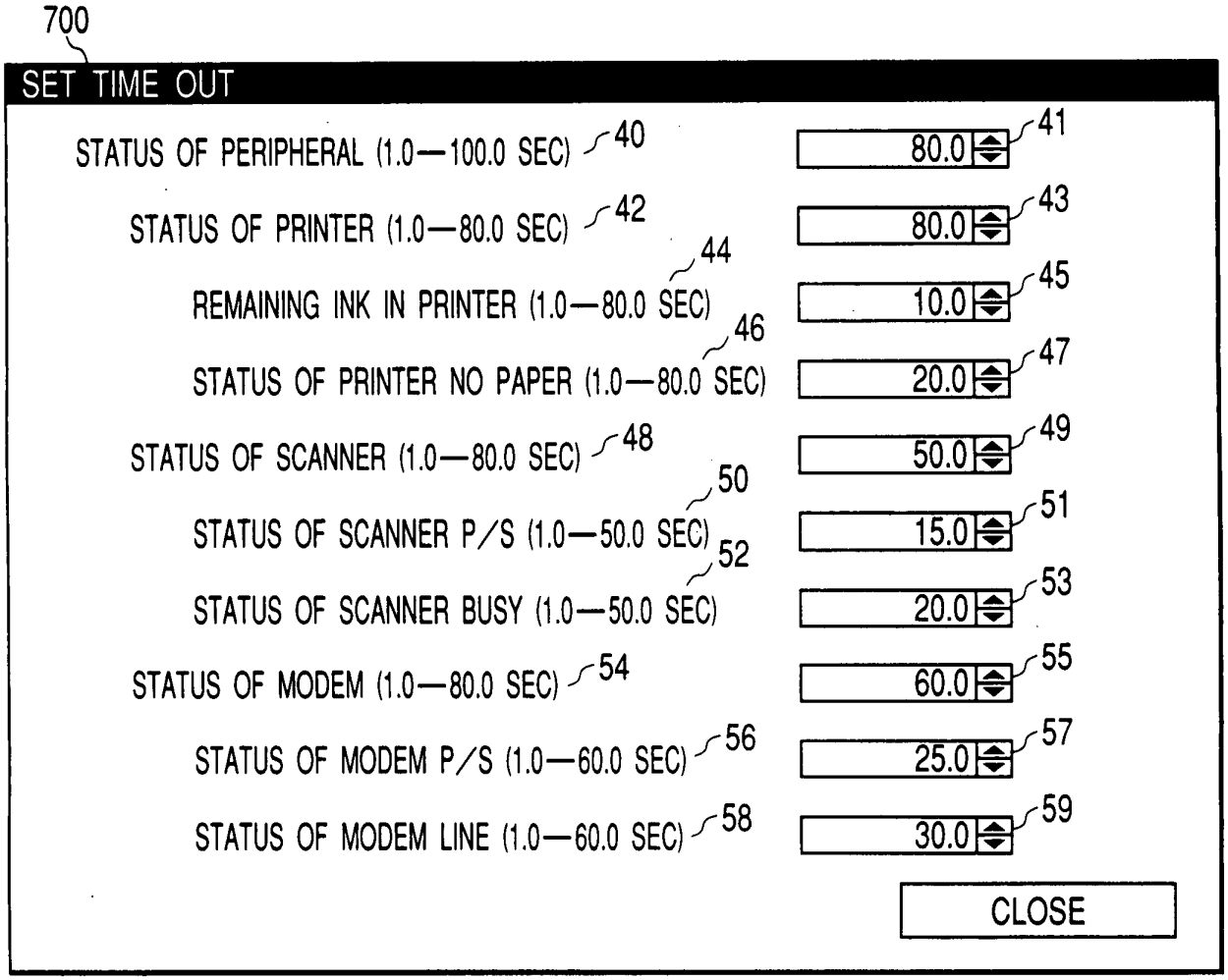
700
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
40
80.0
41
STATUS OF PRINTER (1.0—80.0 SEC)
42
80.0
43
REMAINING INK IN PRINTER (1.0—80.0 SEC)
44
10.0
45
STATUS OF PRINTER NO PAPER (1.0—80.0 SEC)
46
20.0
47
STATUS OF SCANNER (1.0—80.0 SEC)
48
50.0
49
STATUS OF SCANNER P/S (1.0—50.0 SEC)
50
15.0
51
STATUS OF SCANNER BUSY (1.0—50.0 SEC)
52
20.0
53
STATUS OF MODEM (1.0—80.0 SEC)
54
60.0
55
STATUS OF MODEM P/S (1.0—60.0 SEC)
56
25.0
57
STATUS OF MODEM LINE (1.0—60.0 SEC)
58
30.0
59
CLOSE

FIG. 8

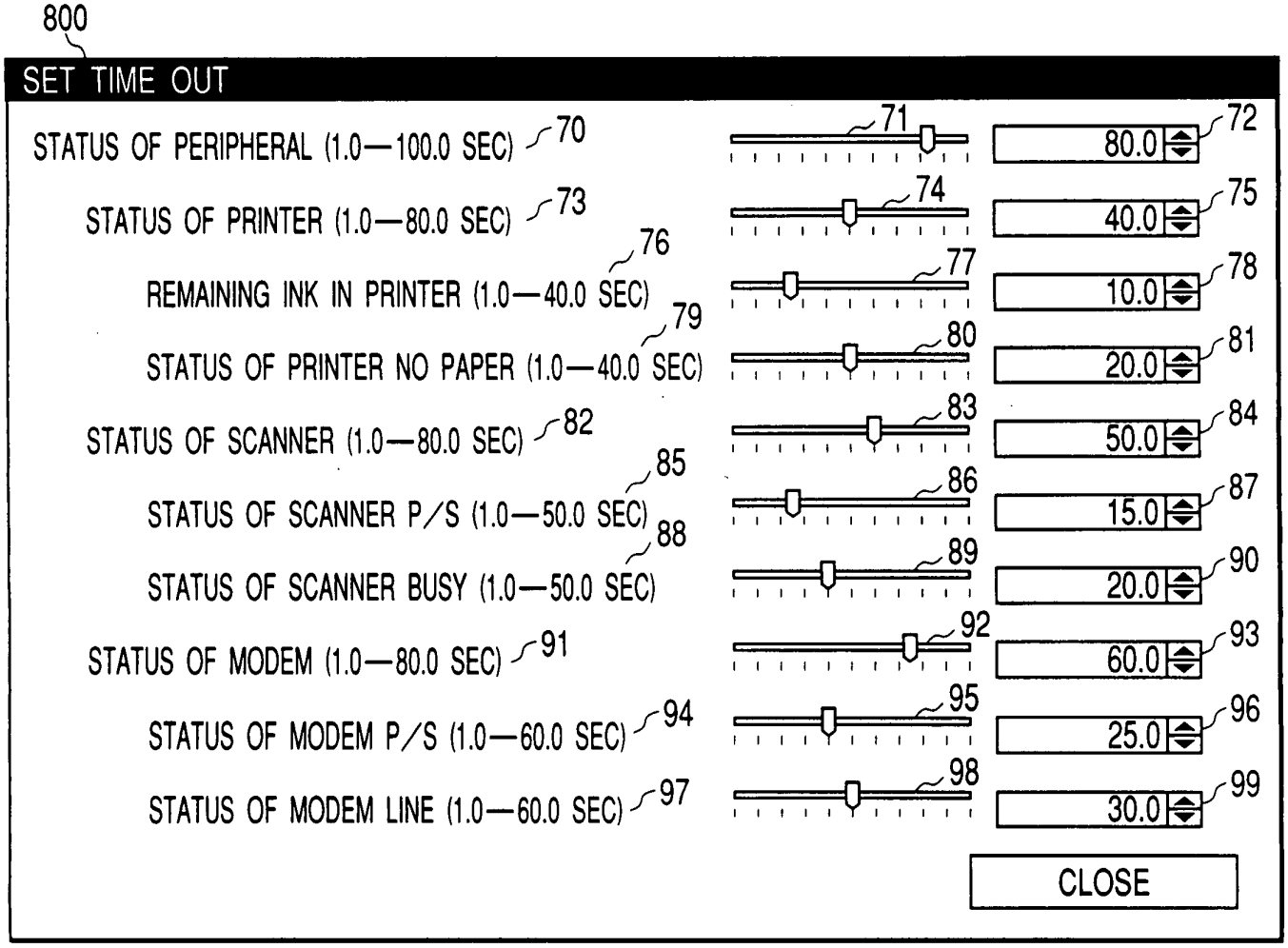
800
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
70
71
80.0
72
STATUS OF PRINTER (1.0—80.0 SEC)
73
74
40.0
75
REMAINING INK IN PRINTER (1.0—40.0 SEC)
76
77
10.0
78
STATUS OF PRINTER NO PAPER (1.0—40.0 SEC)
79
80
20.0
81
STATUS OF SCANNER (1.0—80.0 SEC)
82
83
50.0
84
STATUS OF SCANNER P/S (1.0—50.0 SEC)
85
86
15.0
87
STATUS OF SCANNER BUSY (1.0—50.0 SEC)
88
89
20.0
90
STATUS OF MODEM (1.0—80.0 SEC)
91
92
60.0
93
STATUS OF MODEM P/S (1.0—60.0 SEC)
94
95
25.0
96
STATUS OF MODEM LINE (1.0—60.0 SEC)
97
98
30.0
99
CLOSE

FIG. 9

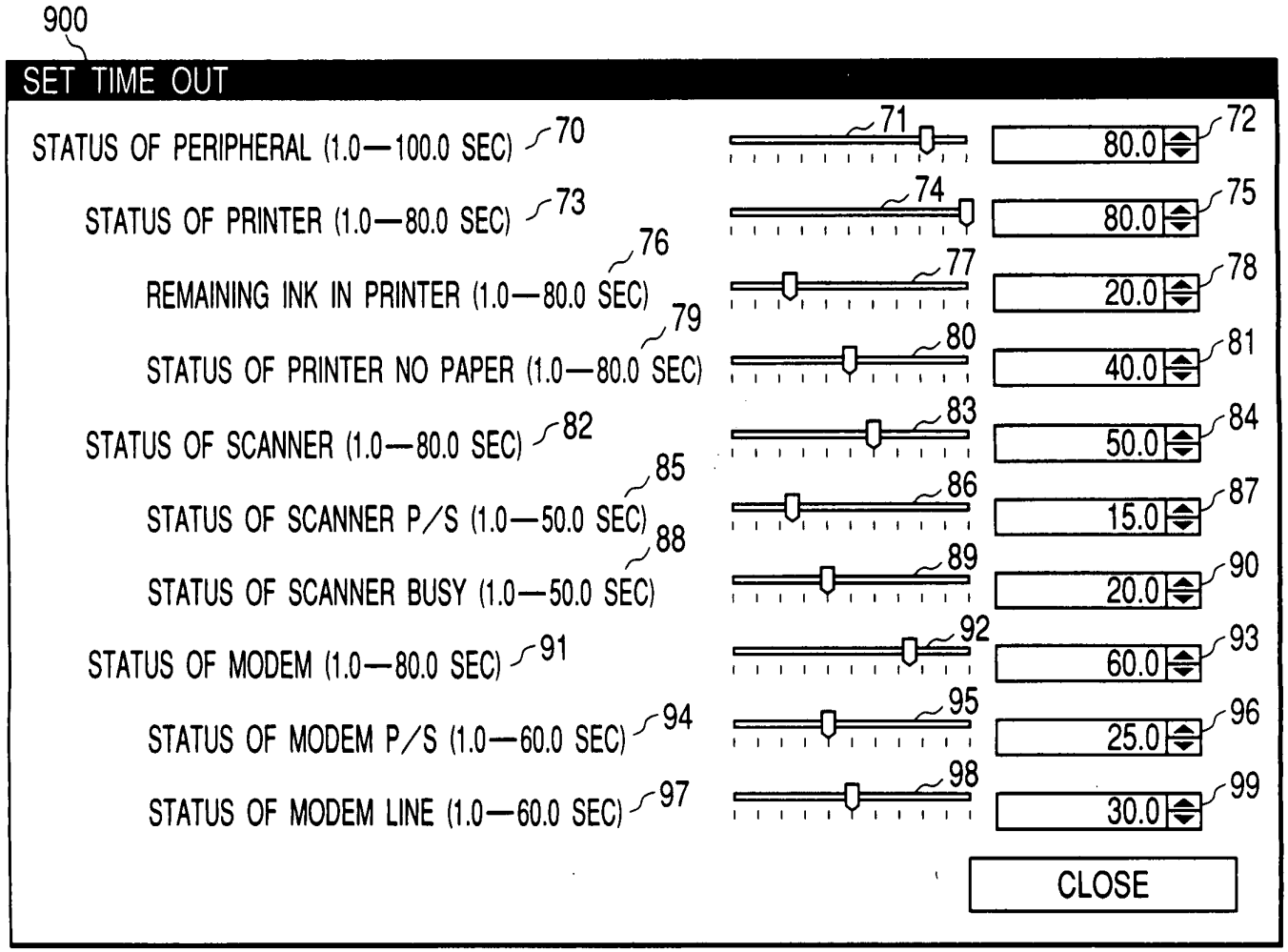
900
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
70
71
80.0
72
STATUS OF PRINTER (1.0—80.0 SEC)
73
74
80.0
75
REMAINING INK IN PRINTER (1.0—80.0 SEC)
76
77
20.0
78
STATUS OF PRINTER NO PAPER (1.0—80.0 SEC)
79
80
40.0
81
STATUS OF SCANNER (1.0—80.0 SEC)
82
83
50.0
84
STATUS OF SCANNER P/S (1.0—50.0 SEC)
85
86
15.0
87
STATUS OF SCANNER BUSY (1.0—50.0 SEC)
88
89
20.0
90
STATUS OF MODEM (1.0—80.0 SEC)
91
92
60.0
93
STATUS OF MODEM P/S (1.0—60.0 SEC)
94
95
25.0
96
STATUS OF MODEM LINE (1.0—60.0 SEC)
97
98
30.0
99
CLOSE

FIG. 10

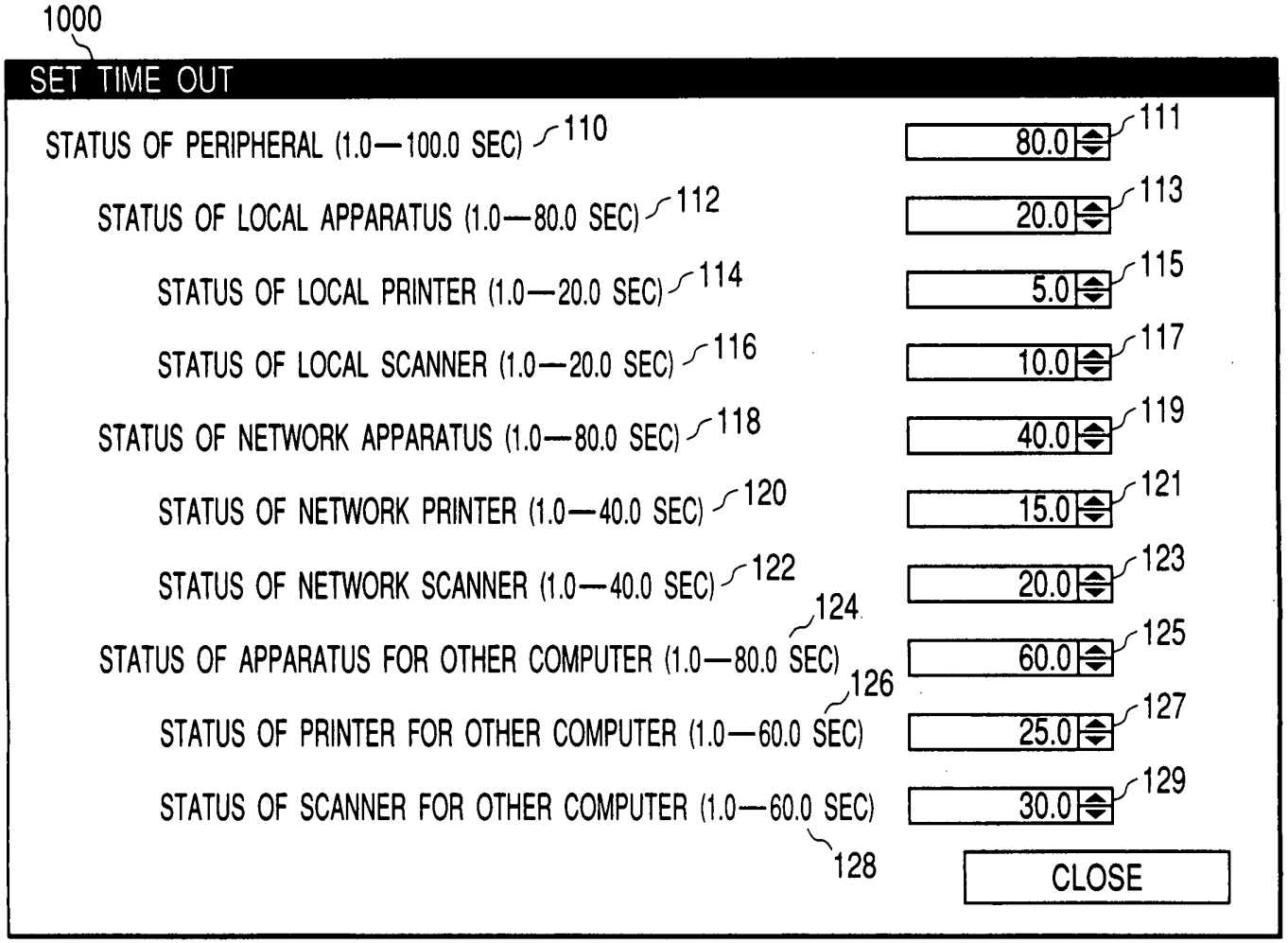
1000
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
110
80.0
111
STATUS OF LOCAL APPARATUS (1.0—80.0 SEC)
112
20.0
113
STATUS OF LOCAL PRINTER (1.0—20.0 SEC)
114
5.0
115
STATUS OF LOCAL SCANNER (1.0—20.0 SEC)
116
10.0
117
STATUS OF NETWORK APPARATUS (1.0—80.0 SEC)
118
40.0
119
STATUS OF NETWORK PRINTER (1.0—40.0 SEC)
120
15.0
121
STATUS OF NETWORK SCANNER (1.0—40.0 SEC)
122
20.0
123
124
STATUS OF APPARATUS FOR OTHER COMPUTER (1.0—80.0 SEC)
60.0
125
126
STATUS OF PRINTER FOR OTHER COMPUTER (1.0—60.0 SEC)
25.0
127
STATUS OF SCANNER FOR OTHER COMPUTER (1.0—60.0 SEC)
30.0
129
128
CLOSE

FIG. 11

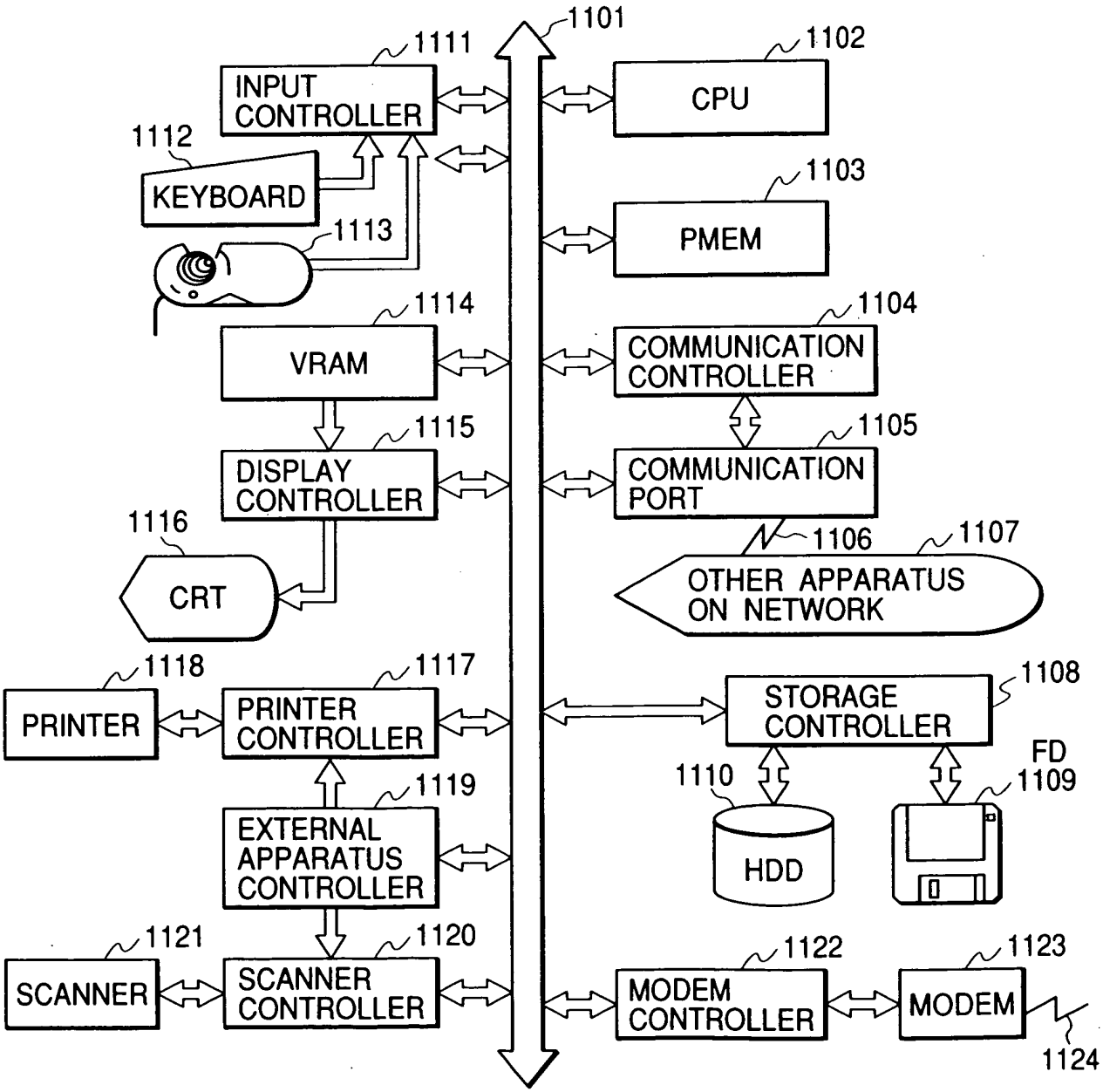
1101
1111
INPUT CONTROLLER
1102
CPU
1112
KEYBOARD
1103
PMEM
1113
1114
VRAM
1104
COMMUNICATION CONTROLLER
1115
DISPLAY CONTROLLER
1105
COMMUNICATION PORT
1116
CRT
1106
1107
OTHER APPARATUS ON NETWORK
1118
PRINTER
1117
PRINTER CONTROLLER
1108
STORAGE CONTROLLER
FD
1110
1109
HDD
1119
EXTERNAL APPARATUS CONTROLLER
1121
SCANNER
1120
SCANNER CONTROLLER
1122
MODEM CONTROLLER
1123
MODEM
1124

FIG. 12

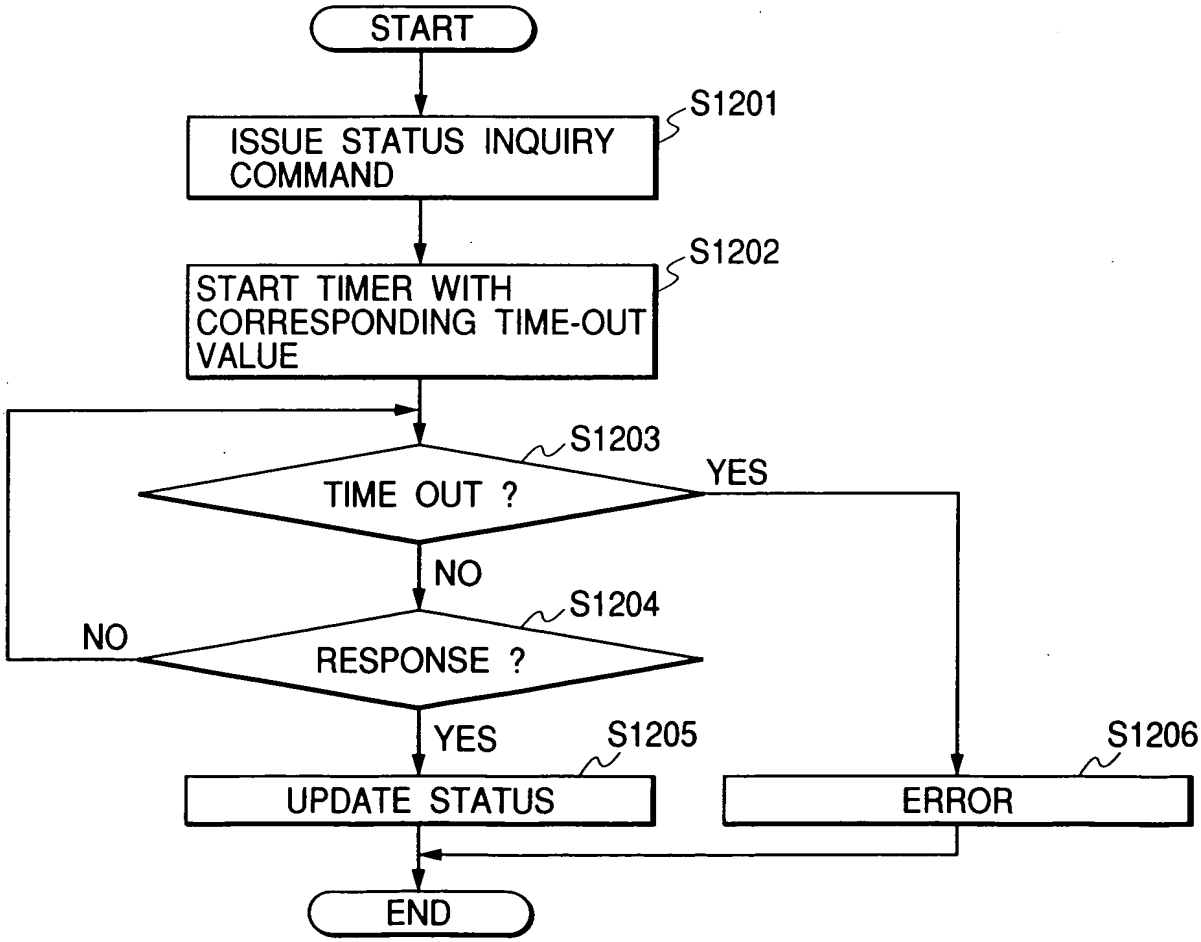
START
ISSUE STATUS INQUIRY COMMAND
S1201
START TIMER WITH CORRESPONDING TIME-OUT VALUE
S1202
TIME OUT ?
S1203
YES
NO
RESPONSE ?
S1204
NO
YES
UPDATE STATUS
S1205
ERROR
S1206
END

FIG. 13

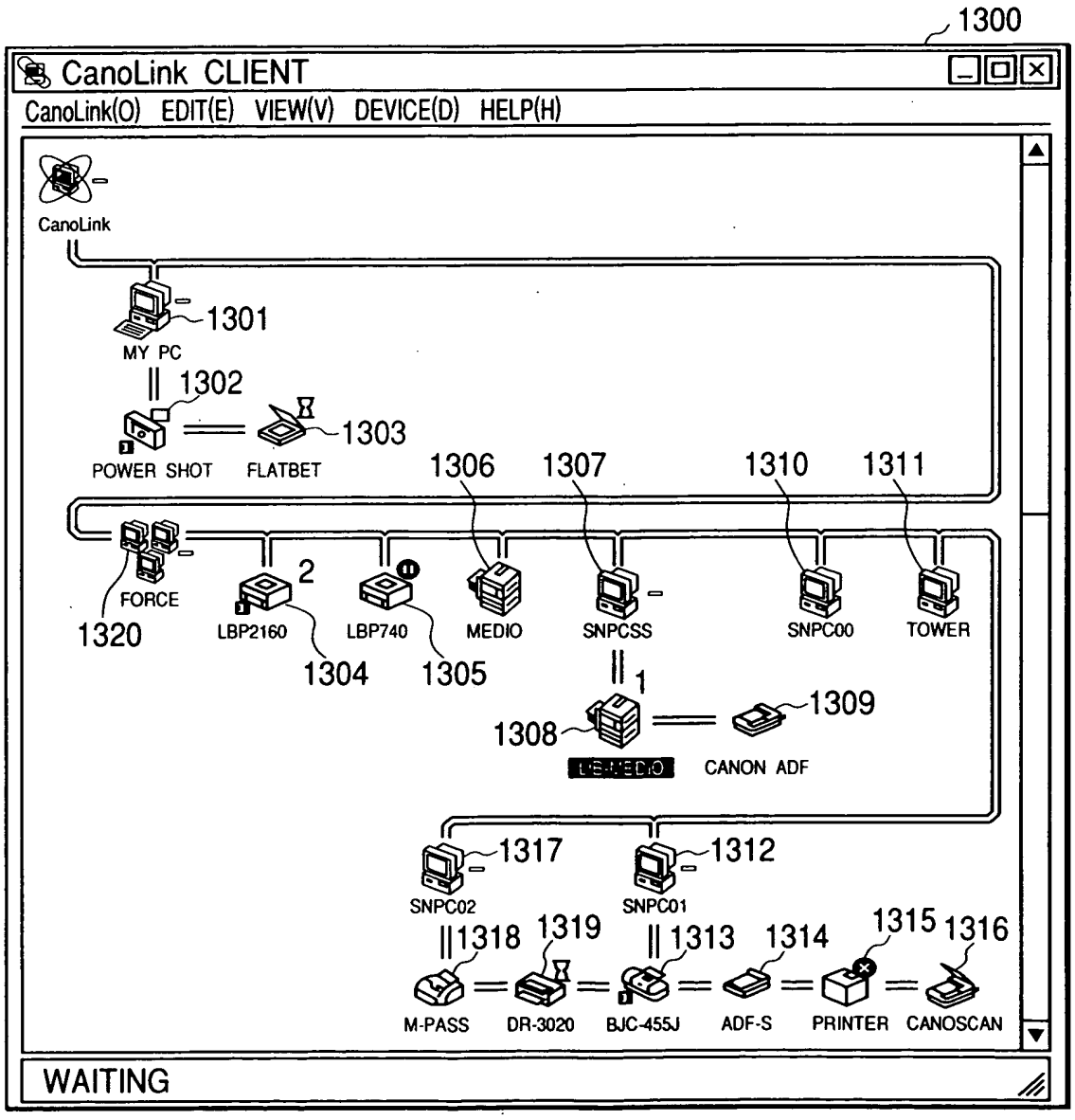
1300
CanoLink CLIENT
CanoLink(O) EDIT(E) VIEW(V) DEVICE(D) HELP(H)
CanoLink
1301
MY PC
1302
1303
POWER SHOT
FLATBET
1306
1307
1310
1311
FORCE
1320
LBP2160
2
LBP740
MEDIO
SNPCSS
SNPC00
TOWER
1304
1305
1
1308
1309
CANON ADF
1317
1312
SNPC02
SNPC01
1318
1319
1313
1314
1315
1316
M-PASS
DR-3020
BJC-455J
ADF-S
PRINTER
CANOSCAN
WAITING

FIG. 14

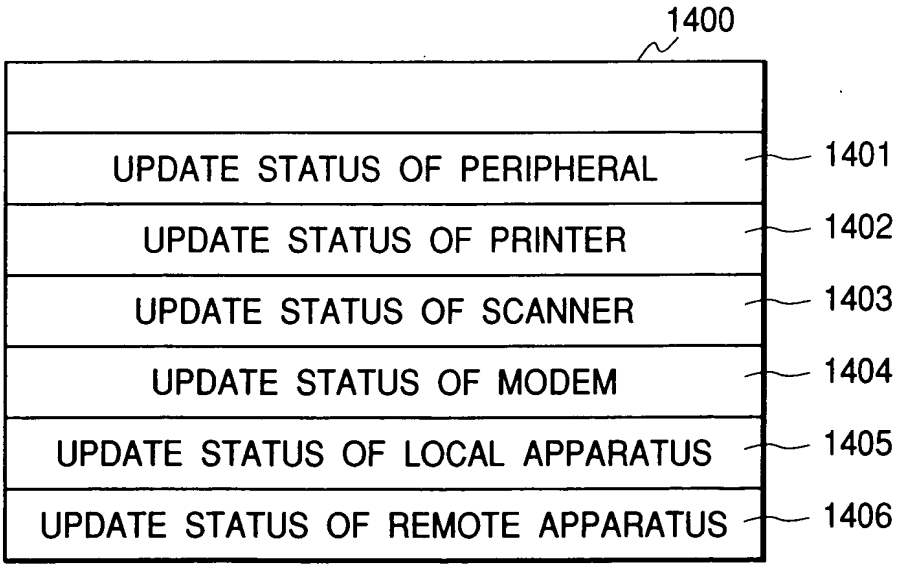
1400
UPDATE STATUS OF PERIPHERAL
1401
UPDATE STATUS OF PRINTER
1402
UPDATE STATUS OF SCANNER
1403
UPDATE STATUS OF MODEM
1404
UPDATE STATUS OF LOCAL APPARATUS
1405
UPDATE STATUS OF REMOTE APPARATUS
1406

FIG. 15

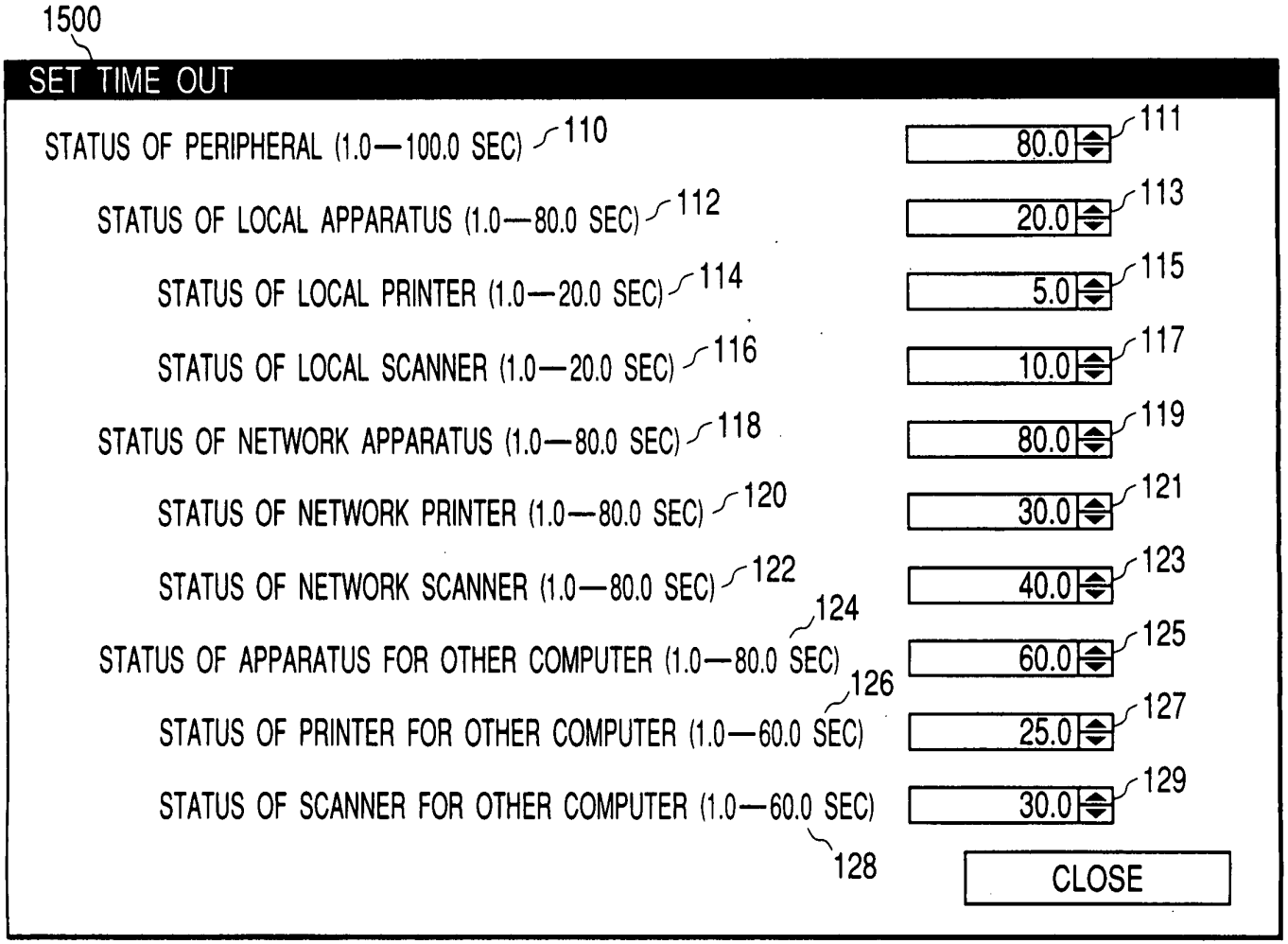
1500
SET TIME OUT
STATUS OF PERIPHERAL (1.0—100.0 SEC)
110
80.0
111
STATUS OF LOCAL APPARATUS (1.0—80.0 SEC)
112
20.0
113
STATUS OF LOCAL PRINTER (1.0—20.0 SEC)
114
5.0
115
STATUS OF LOCAL SCANNER (1.0—20.0 SEC)
116
10.0
117
STATUS OF NETWORK APPARATUS (1.0—80.0 SEC)
118
80.0
119
STATUS OF NETWORK PRINTER (1.0—80.0 SEC)
120
30.0
121
STATUS OF NETWORK SCANNER (1.0—80.0 SEC)
122
40.0
123
124
STATUS OF APPARATUS FOR OTHER COMPUTER (1.0—80.0 SEC)
60.0
125
126
STATUS OF PRINTER FOR OTHER COMPUTER (1.0—60.0 SEC)
25.0
127
STATUS OF SCANNER FOR OTHER COMPUTER (1.0—60.0 SEC)
30.0
129
128
CLOSE

FIG. 16

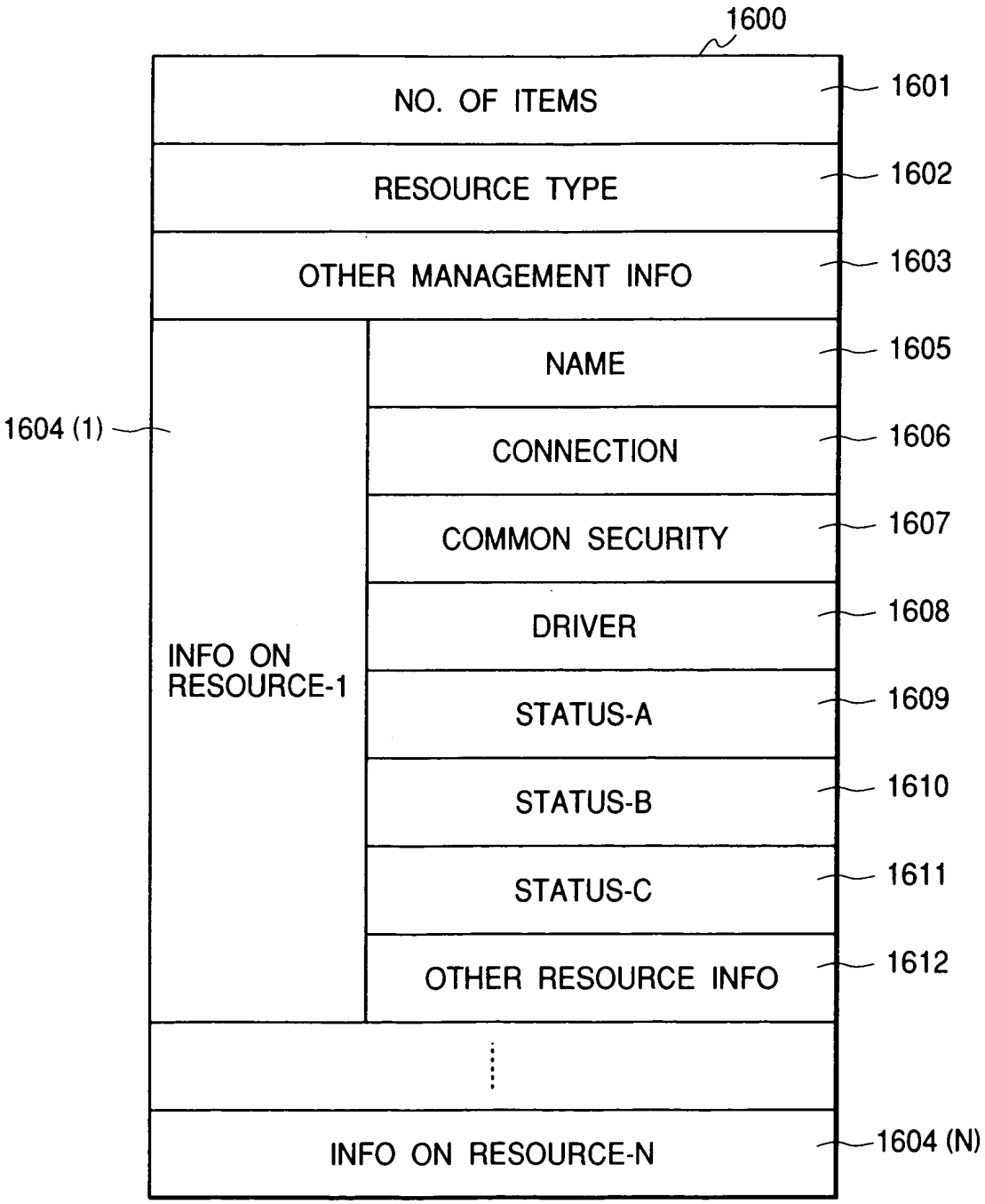
1600
NO. OF ITEMS
1601
RESOURCE TYPE
1602
OTHER MANAGEMENT INFO
1603
1604 (1)
INFO ON RESOURCE-1
NAME
1605
CONNECTION
1606
COMMON SECURITY
1607
DRIVER
1608
STATUS-A
1609
STATUS-B
1610
STATUS-C
1611
OTHER RESOURCE INFO
1612
INFO ON RESOURCE-N
1604 (N)

FIG. 17

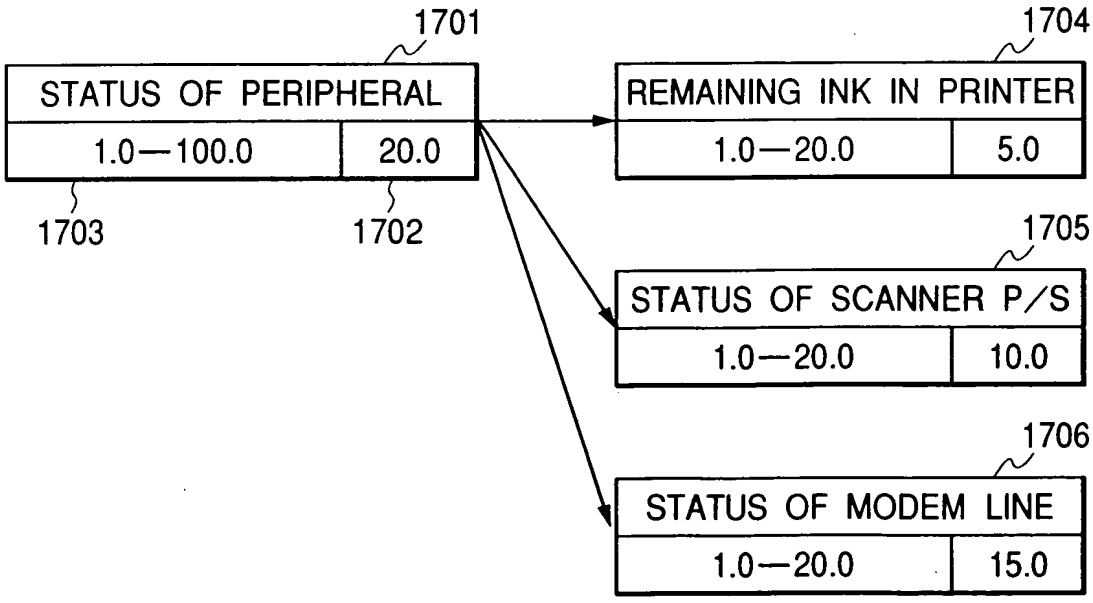
1701
STATUS OF PERIPHERAL
1.0—100.0
20.0
1703
1702
1704
REMAINING INK IN PRINTER
1.0—20.0
5.0
1705
STATUS OF SCANNER P/S
1.0—20.0
10.0
1706
STATUS OF MODEM LINE
1.0—20.0
15.0

FIG. 18

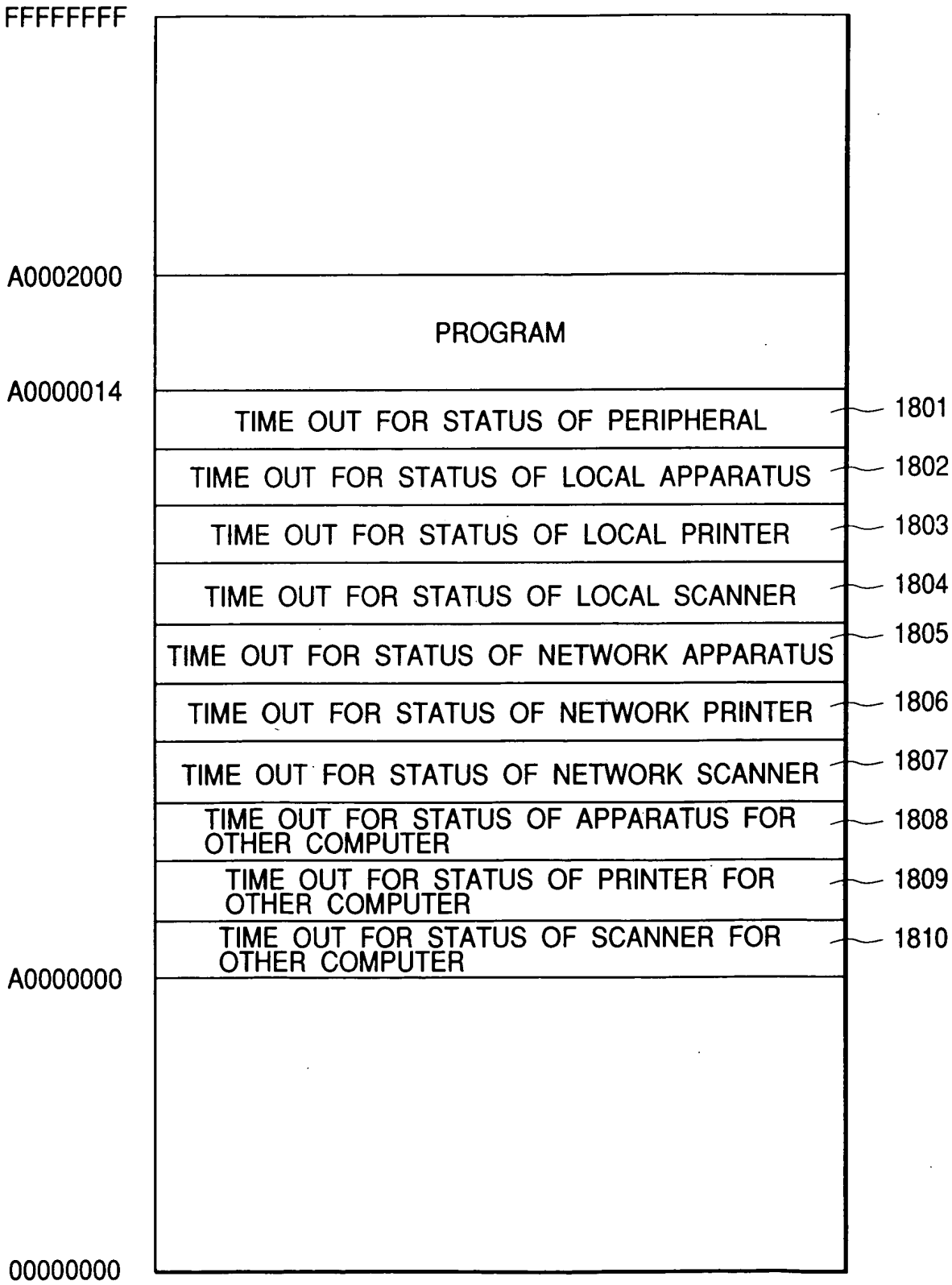

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FIG. 19

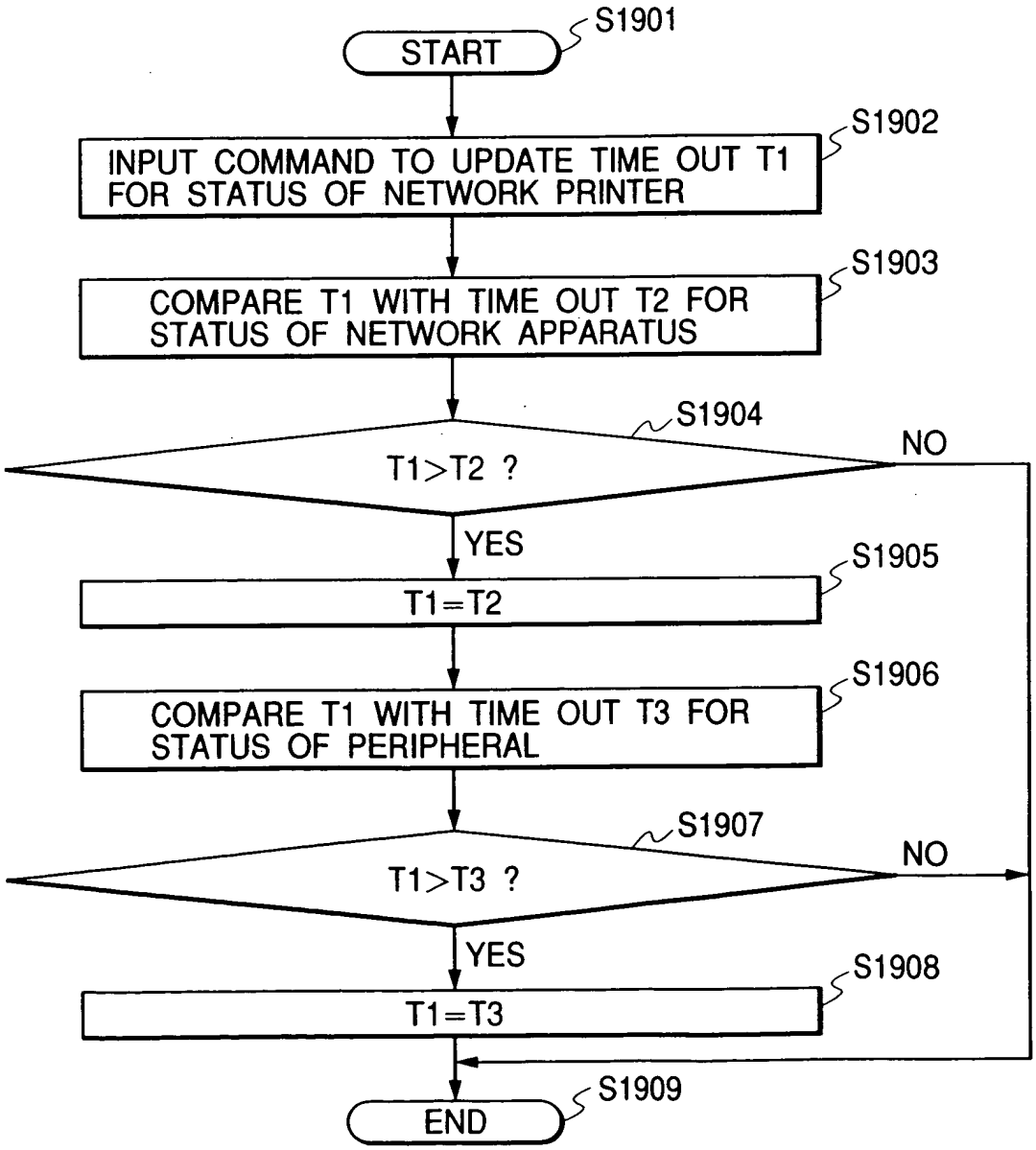

START
S1901
INPUT COMMAND TO UPDATE TIME OUT T1 FOR STATUS OF NETWORK PRINTER
S1902
COMPARE T1 WITH TIME OUT T2 FOR STATUS OF NETWORK APPARATUS
S1903
T1>T2 ?
S1904
NO
YES
T1=T2
S1905
COMPARE T1 WITH TIME OUT T3 FOR STATUS OF PERIPHERAL
S1906
T1>T3 ?
S1907
NO
YES
T1=T3
S1908
END
S1909

FIG. 20

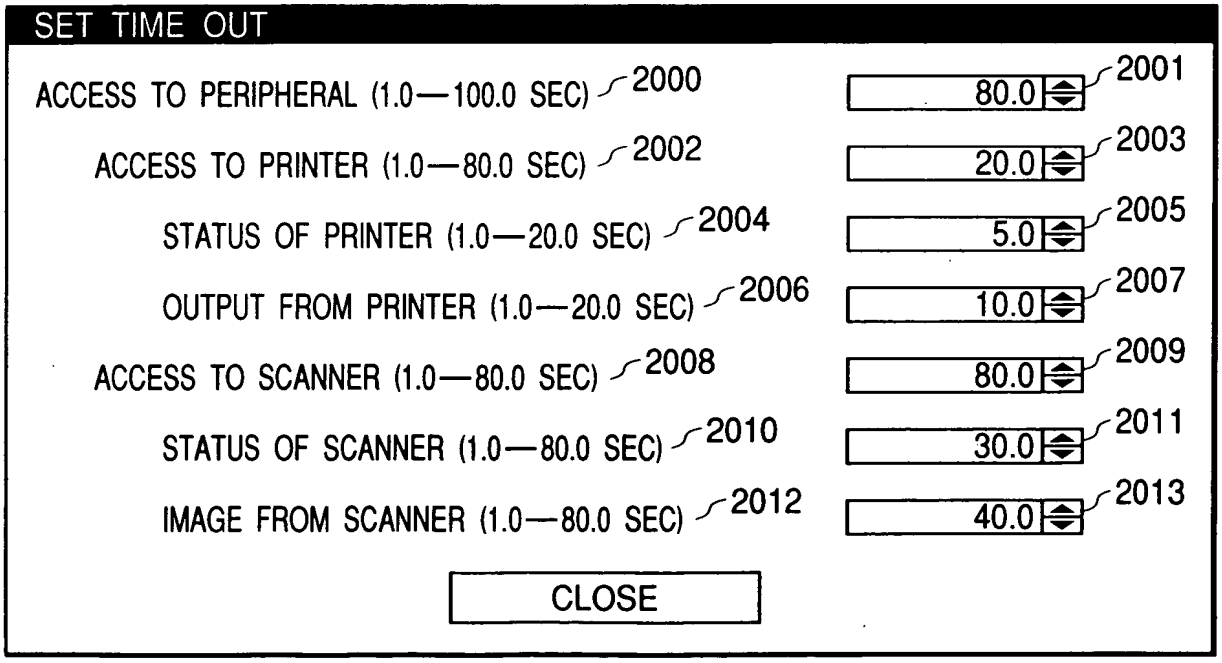
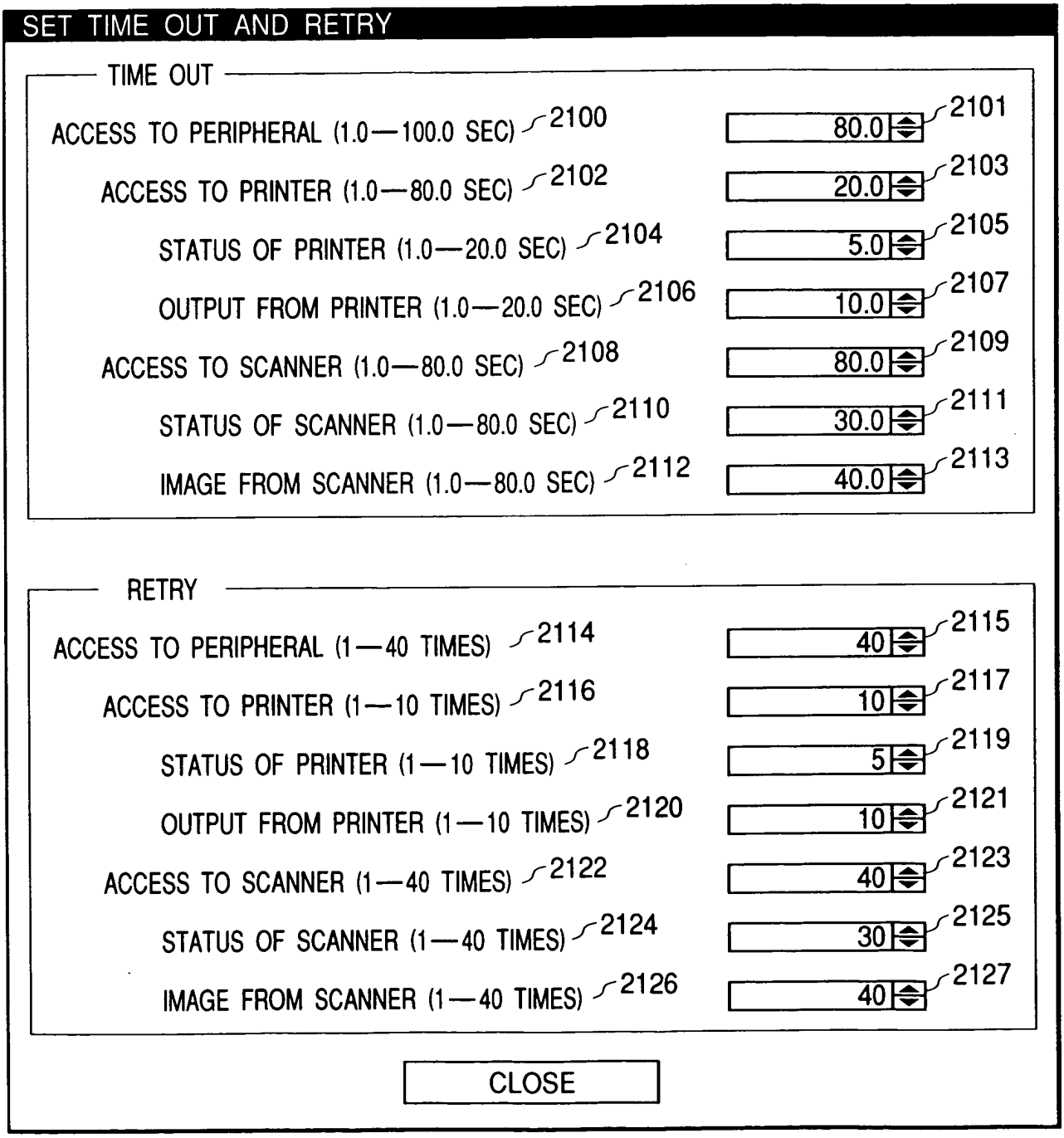

SET TIME OUT
ACCESS TO PERIPHERAL (1.0—100.0 SEC)
2000
80.0
2001
ACCESS TO PRINTER (1.0—80.0 SEC)
2002
20.0
2003
STATUS OF PRINTER (1.0—20.0 SEC)
2004
5.0
2005
OUTPUT FROM PRINTER (1.0—20.0 SEC)
2006
10.0
2007
ACCESS TO SCANNER (1.0—80.0 SEC)
2008
80.0
2009
STATUS OF SCANNER (1.0—80.0 SEC)
2010
30.0
2011
IMAGE FROM SCANNER (1.0—80.0 SEC)
2012
40.0
2013
CLOSE

FIG. 21



0930504.011904

FIG. 22

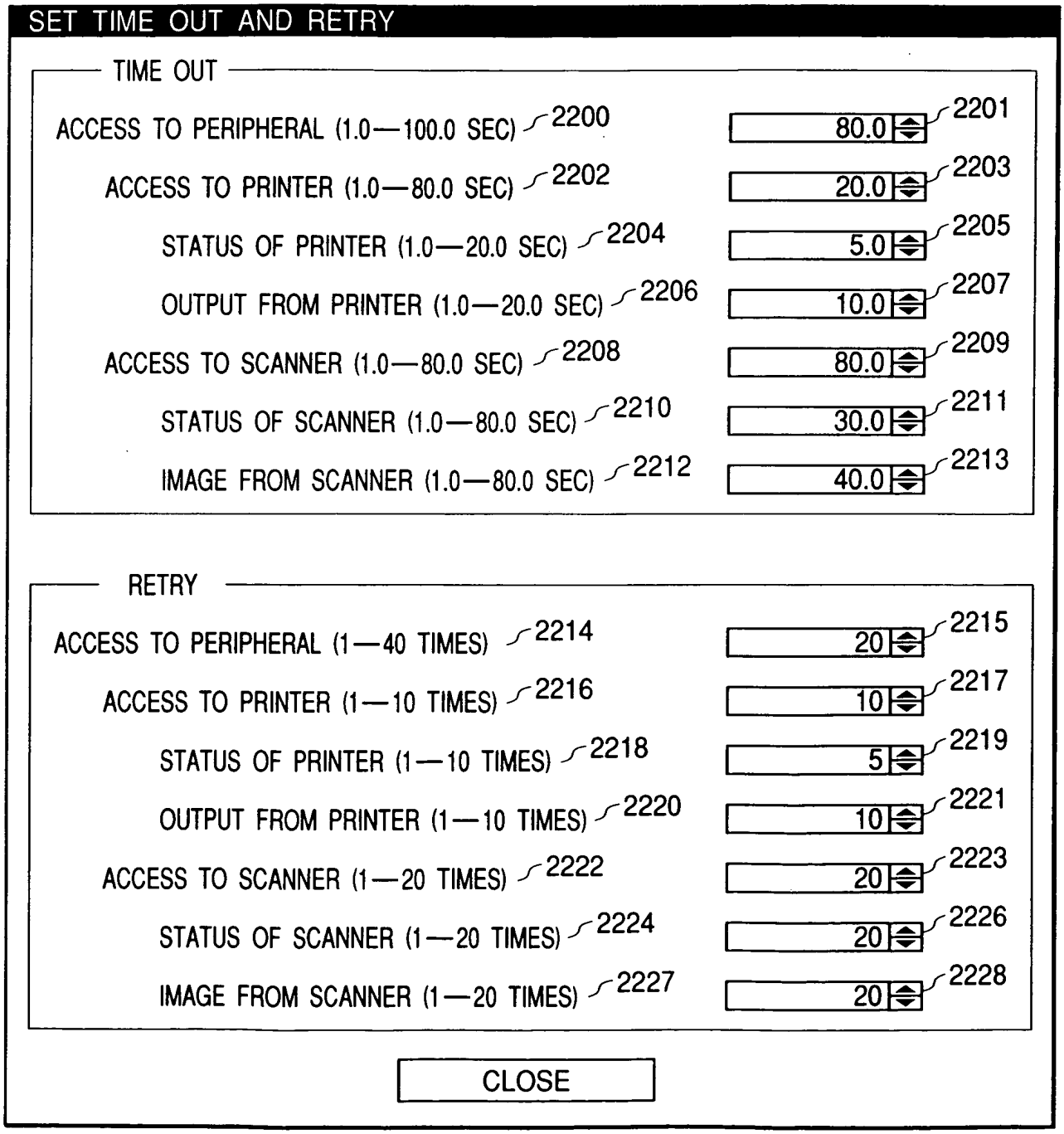

SET TIME OUT AND RETRY
TIME OUT
ACCESS TO PERIPHERAL (1.0—100.0 SEC)
2200
80.0
2201
ACCESS TO PRINTER (1.0—80.0 SEC)
2202
20.0
2203
STATUS OF PRINTER (1.0—20.0 SEC)
2204
5.0
2205
OUTPUT FROM PRINTER (1.0—20.0 SEC)
2206
10.0
2207
ACCESS TO SCANNER (1.0—80.0 SEC)
2208
80.0
2209
STATUS OF SCANNER (1.0—80.0 SEC)
2210
30.0
2211
IMAGE FROM SCANNER (1.0—80.0 SEC)
2212
40.0
2213
RETRY
ACCESS TO PERIPHERAL (1—40 TIMES)
2214
20
2215
ACCESS TO PRINTER (1—10 TIMES)
2216
10
2217
STATUS OF PRINTER (1—10 TIMES)
2218
5
2219
OUTPUT FROM PRINTER (1—10 TIMES)
2220
10
2221
ACCESS TO SCANNER (1—20 TIMES)
2222
20
2223
STATUS OF SCANNER (1—20 TIMES)
2224
20
2226
IMAGE FROM SCANNER (1—20 TIMES)
2227
20
2228
CLOSE

FIG. 23

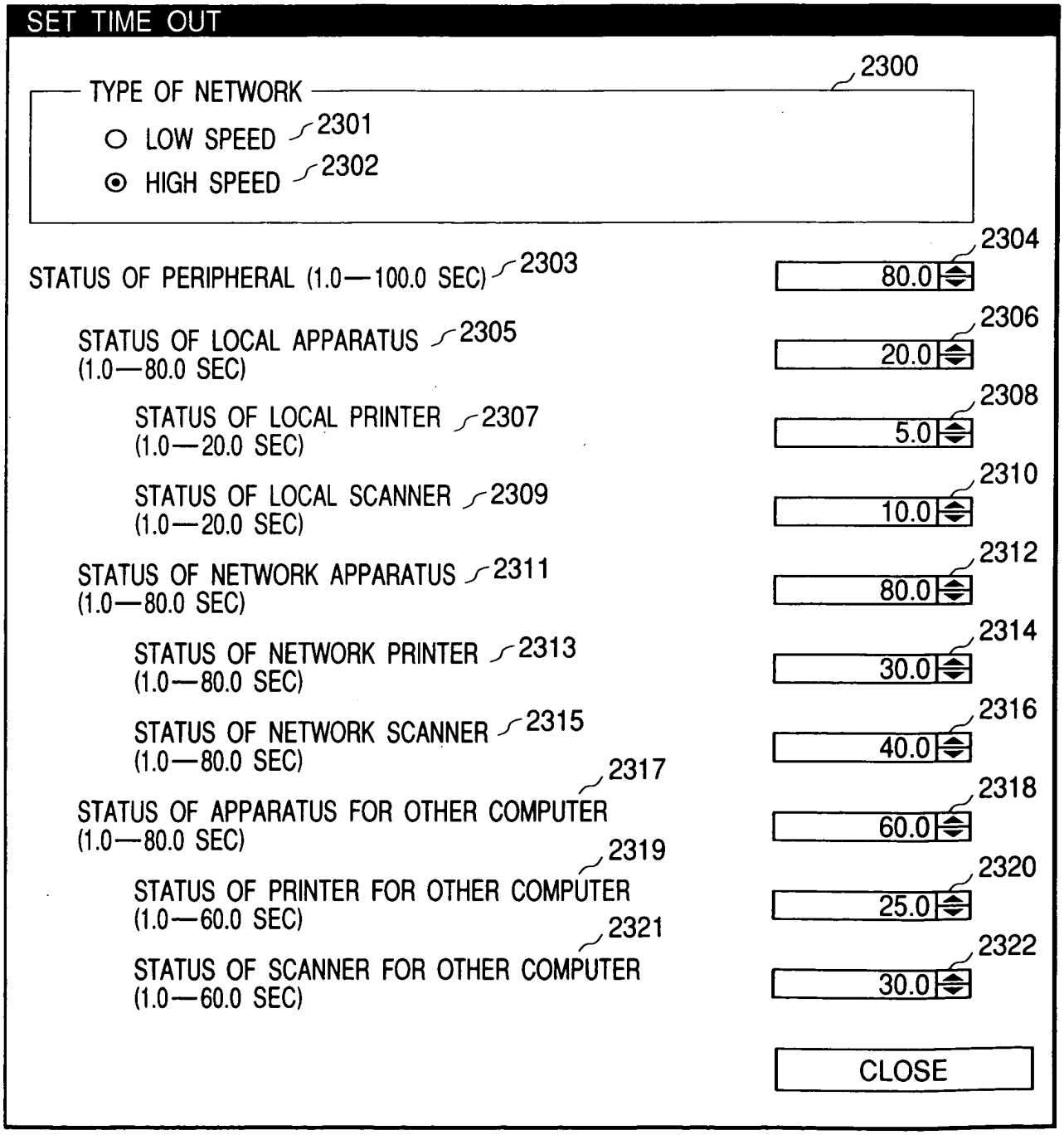
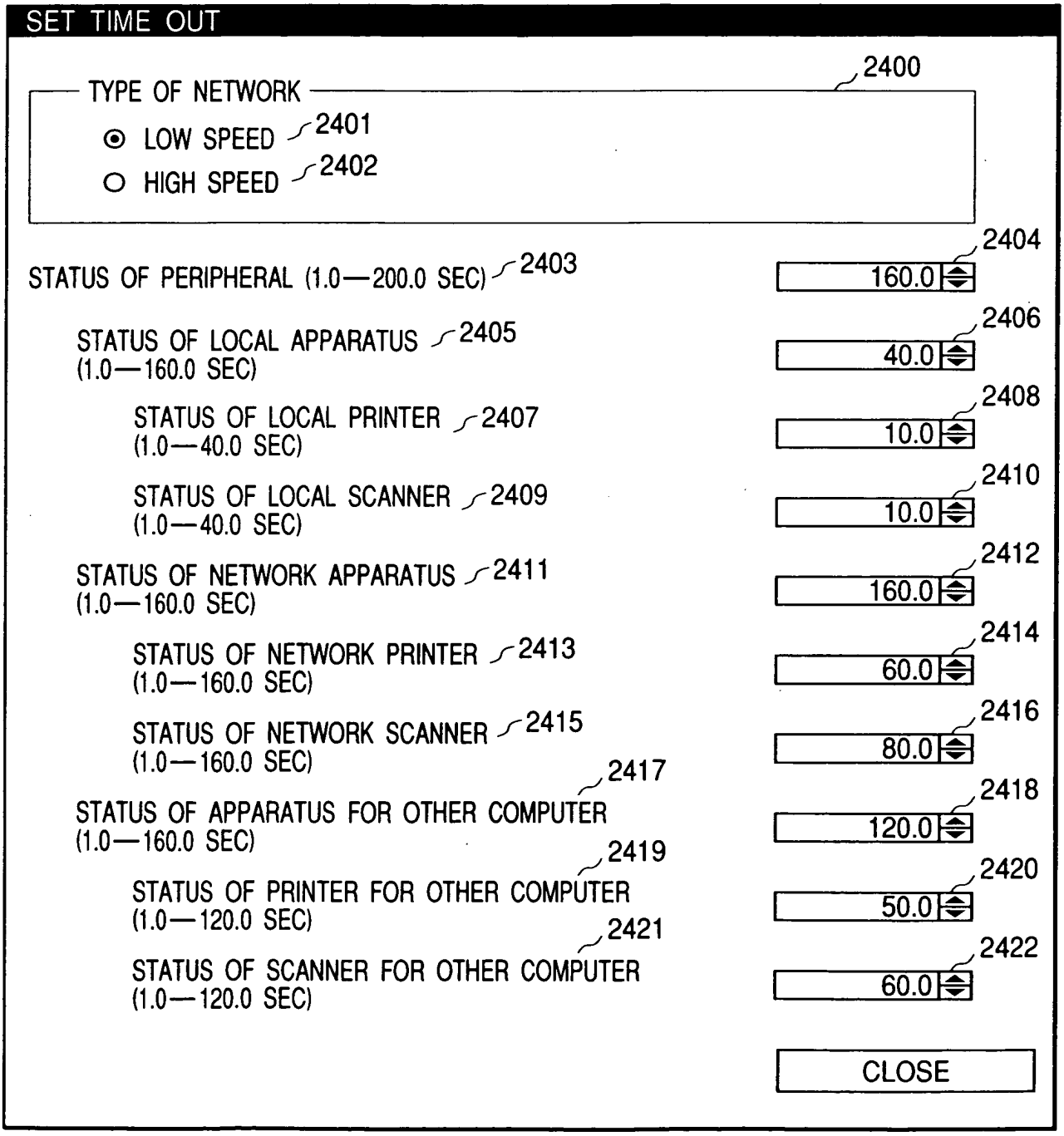
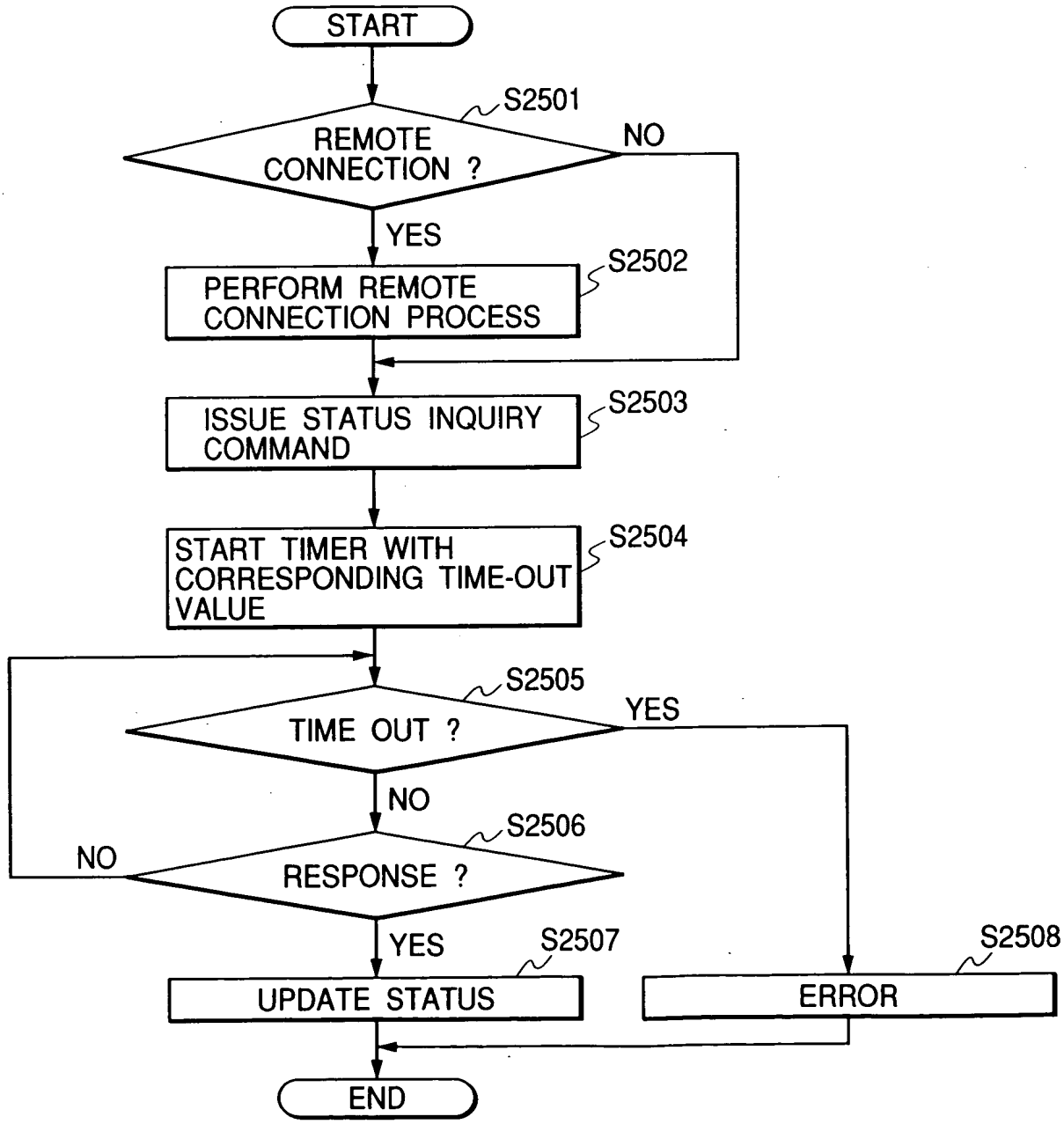

SET TIME OUT
2300
TYPE OF NETWORK
LOW SPEED
2301
HIGH SPEED
2302
STATUS OF PERIPHERAL (1.0—100.0 SEC)
2303
2304
80.0
STATUS OF LOCAL APPARATUS
(1.0—80.0 SEC)
2305
2306
20.0
STATUS OF LOCAL PRINTER
(1.0—20.0 SEC)
2307
2308
5.0
STATUS OF LOCAL SCANNER
(1.0—20.0 SEC)
2309
2310
10.0
STATUS OF NETWORK APPARATUS
(1.0—80.0 SEC)
2311
2312
80.0
STATUS OF NETWORK PRINTER
(1.0—80.0 SEC)
2313
2314
30.0
STATUS OF NETWORK SCANNER
(1.0—80.0 SEC)
2315
2316
40.0
STATUS OF APPARATUS FOR OTHER COMPUTER
(1.0—80.0 SEC)
2317
2318
60.0
STATUS OF PRINTER FOR OTHER COMPUTER
(1.0—60.0 SEC)
2319
2320
25.0
STATUS OF SCANNER FOR OTHER COMPUTER
(1.0—60.0 SEC)
2321
2322
30.0
CLOSE

FIG. 24



0370054.0111501

FIG. 25


START
S2501
REMOTE CONNECTION ?
NO
YES
S2502
PERFORM REMOTE CONNECTION PROCESS
S2503
ISSUE STATUS INQUIRY COMMAND
S2504
START TIMER WITH CORRESPONDING TIME-OUT VALUE
S2505
TIME OUT ?
YES
NO
S2506
RESPONSE ?
NO
YES
S2507
UPDATE STATUS
S2508
ERROR
END